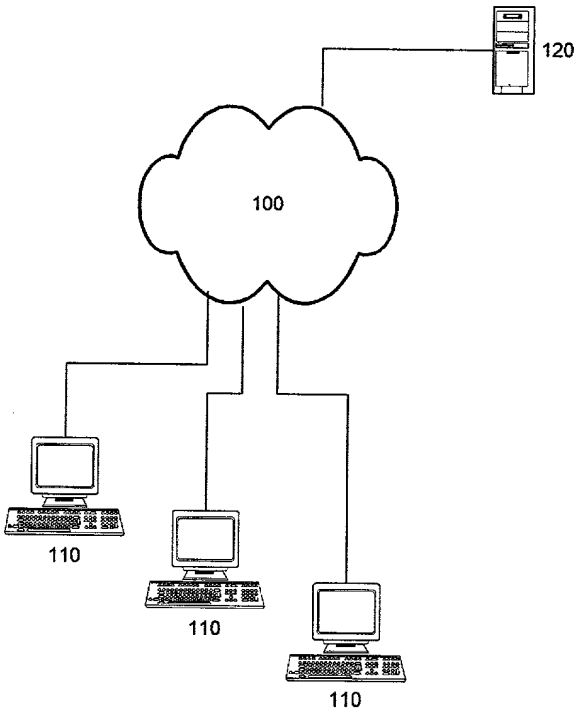

FIG. 1

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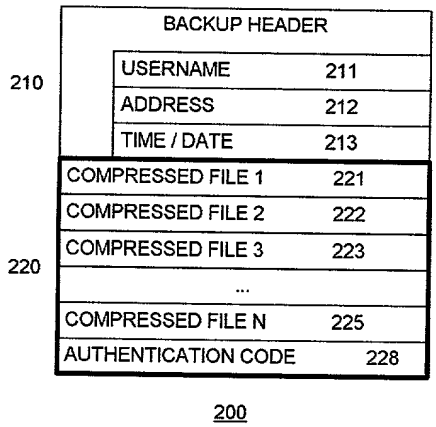

FIG. 2

Patent Application

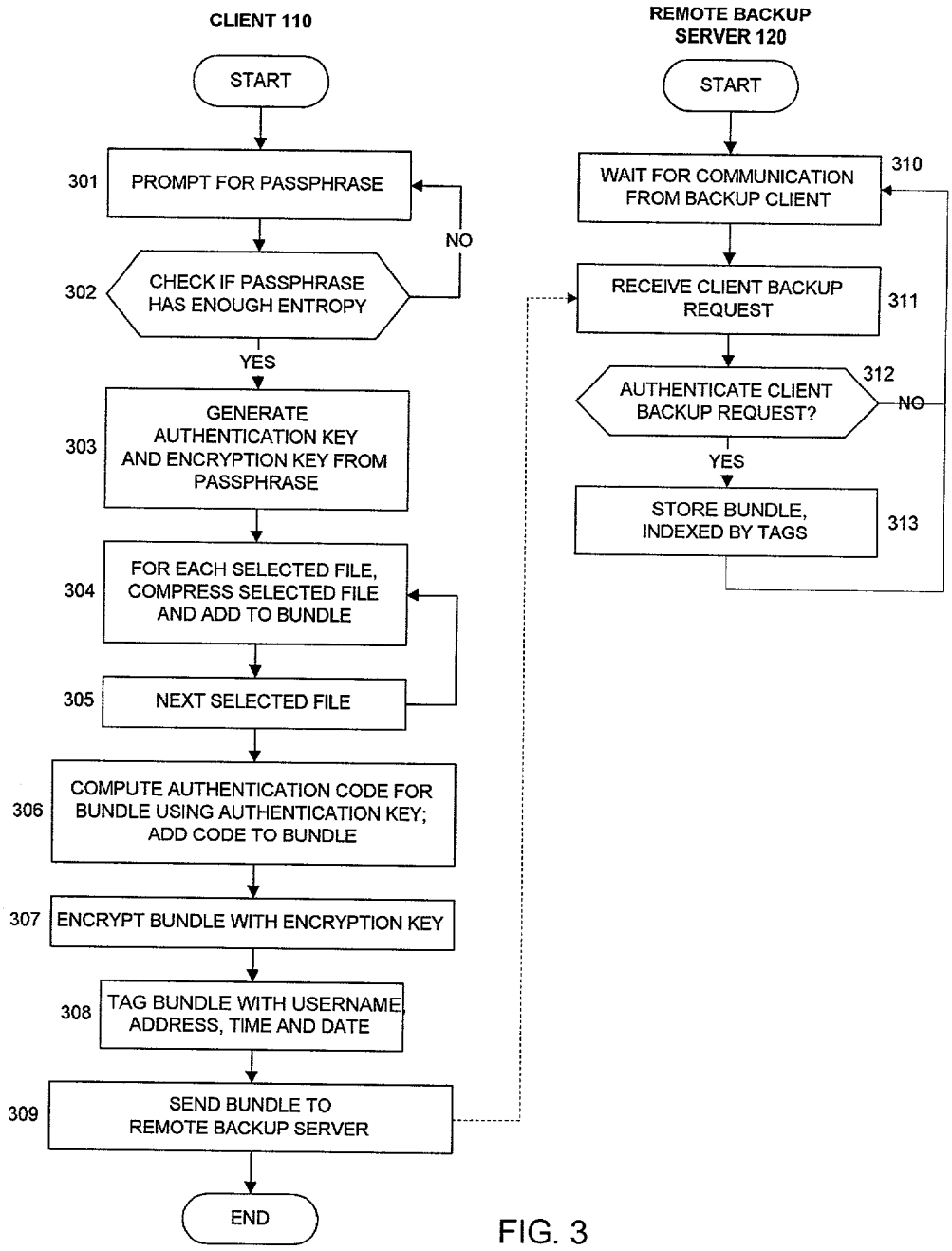
CLIENT 110
START
301
PROMPT FOR PASSPHRASE
NO
302
CHECK IF PASSPHRASE HAS ENOUGH ENTROPY
YES
303
GENERATE AUTHENTICATION KEY AND ENCRYPTION KEY FROM PASSPHRASE
304
FOR EACH SELECTED FILE, COMPRESS SELECTED FILE AND ADD TO BUNDLE
305
NEXT SELECTED FILE
306
COMPUTE AUTHENTICATION CODE FOR BUNDLE USING AUTHENTICATION KEY; ADD CODE TO BUNDLE
307
ENCRYPT BUNDLE WITH ENCRYPTION KEY
308
TAG BUNDLE WITH USERNAME, ADDRESS, TIME AND DATE
309
SEND BUNDLE TO REMOTE BACKUP SERVER
END
REMOTE BACKUP SERVER 120
START
310
WAIT FOR COMMUNICATION FROM BACKUP CLIENT
311
RECEIVE CLIENT BACKUP REQUEST
312
AUTHENTICATE CLIENT BACKUP REQUEST?
NO
YES
313
STORE BUNDLE, INDEXED BY TAGS

FIG. 3

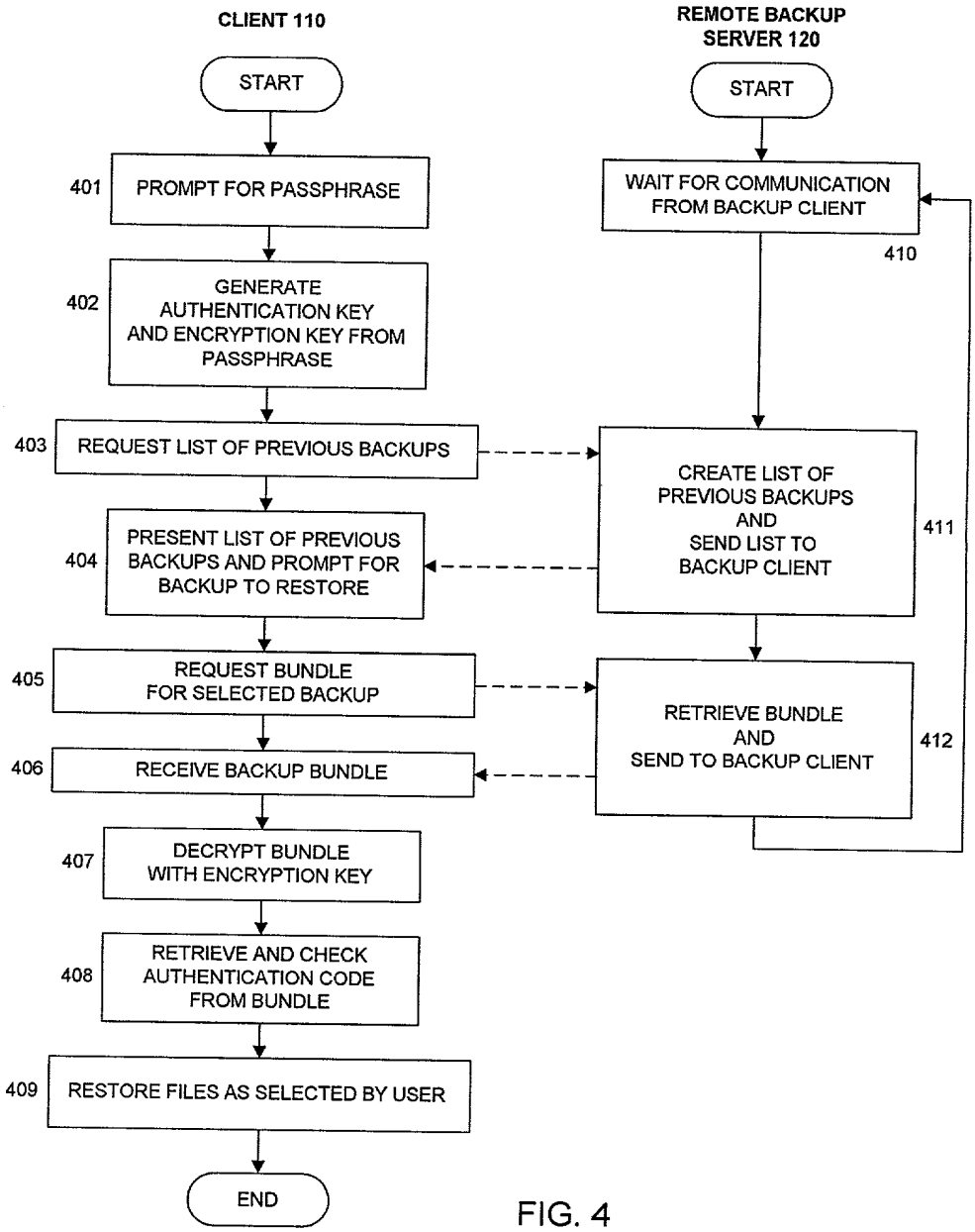

FIG. 4

Doc Code: IDS.SB08